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IB - 193/63
20 August 1963
Copy 3 of 8

MEMORANDUM FOR: Chief, Resources Division, ORR

ATTENTION :

Declass Review by NGA.

FROM :

Chief, CIA/PID (NPIC)

SUBJECT :

Search and Analysis of Two Hydro Power Plants in Communist China

REFERENCES :

- (1) ORR Requirement No. RR/89/63, dated 19 April 1963
- (2) CIA Project No. C 542/63

1. This memorandum is in answer to referenced requirement concerning the Chen-tsun and the Hsin-an dams in eastern China.

2. An analysis of all available photography concerning these areas reveals that these two dams are separate entities, contrary to the referenced report that they are identical or one in the same. This analysis is based on a wide range photo period (1959-1963); and although not a large quantity of photography by volume, nevertheless several fair to good quality photo missions are available to prove the existence and to show various stages of construction of the dams. The photography and map included in this report have been included to illustrate the actual dam locations and to show the amount of construction changes that were evident between 1959 and 1962. Details concerning the dams are as follow (See Figures 2-5):

- (a) The Chen-tsun Dam - This dam is located in a gorge on the Ma-chuan approximately 17 nautical miles southwest of Ching-Hsien at 30 29N - 118 09E. The approximate coordinates, for this dam, given in the referenced requirement locate the dam in the immediate vicinity of Ching-hsien. This dam identified herein, is the only dam of consequence located within a radius of 25 miles of Ching-hsien (See figure 2). The dam is a masonry arch dam approximately 550 feet long, and it is probably in late stages of construction. The water behind the dam does not appear to be "backed-up" sufficiently to indicate definite reservoir accumulation. It was probably being diverted through tunnels at the time of the latest photography (See Figure 3 and 4). On photography of [] the dam was in early stages of construction (See Figure 3); and on [] photography, the dam appeared to be in late stages of construction. A probable generator hall appears to be located midway along the downstream face of the dam. Substation locations and power transmission lines were not discernible on the photography used in this study.

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- (b) The Hsin-an Dam - This dam is situated across the An-chiang (river) approximately 15 nm WSW of Chien-te at 29 29N - 119 13E. It is a masonry gravity-type structure approximately 600 feet long. Construction of the dam appears to have begun several months prior to the [] photo coverage (See Figure 5), at that time the dam appeared to be in early-to-mid stages of construction. The dam construction and probable coffer dam were both visible. The river flow was probably diverted through tunnels along the left bank. The dam and facilities appeared to be complete and operational on photography of [] (See Figure 6). Some other features observed include: a large generator housing, approximately 250' x 50', is visible along the base of the dam; probable substations and power transmission equipment appears to be located mainly on the right bank of the river; and a log boom, log rafts and a probable log chute (located on the east side of the dam). The area is well served by both road and rail transportation nets. Although the portion of the reservoir observed appears to be at or near normal accumulation level, a site plan and reservoir profile could not be made at this time due to the lack of complete photo coverage of the reservoir area.

3. The analyst assigned to this project was [] who may be contacted directly on extension [] should you have any further questions concerning these dams.

ENCLOSURES:

CIA/PID/IB-P-243/63 thru P-248/63

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